

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007503

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B29C45/17 B29C65/00 B65B31/02 B29C69/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B29C B65B B25J A61J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 2004/009323 A (FORSBERG ERIK) 29 January 2004 (2004-01-29) the whole document	1-5, 14-17
Y	US 6 065 270 A (BOUFFLEUR RALF ET AL) 23 May 2000 (2000-05-23) column 7, line 3 - column 8, line 9 column 8, line 43 - column 9, line 2 figures 2,3b,6	1-6, 14-17
Y	US R E37 676 E (GARREN JR ROBERT THOMAS ET AL) 30 April 2002 (2002-04-30) claim 1; figure 1	1-6, 14-17
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

1 November 2004

Date of mailing of the international search report

08/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Zattoni, F

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007503

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 02, 28 February 1997 (1997-02-28) & JP 08 282789 A (MITSUBISHI HEAVY IND LTD), 29 October 1996 (1996-10-29) abstract	1-23
A	US 5 687 542 A (ROBINSON MICHELLE ET AL) 18 November 1997 (1997-11-18) the whole document	1-23

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007503

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004009323	A	29-01-2004	WO 2004009323 A2	29-01-2004
US 6065270	A	23-05-2000	DE 19652708 A1	25-06-1998
			DE 59709850 D1	22-05-2003
			EP 0849173 A1	24-06-1998
			JP 10180791 A	07-07-1998
US RE37676	E	30-04-2002	US 5723085 A	03-03-1998
			US RE37676 E1	30-04-2002
			AU 711004 B2	07-10-1999
			AU 3498197 A	19-01-1999
			CA 2262975 A1	07-01-1999
			WO 9900238 A1	07-01-1999
JP 08282789	A	29-10-1996	NONE	
US 5687542	A	18-11-1997	AT 227202 T	15-11-2002
			AU 6842996 A	19-03-1997
			DE 69624715 D1	12-12-2002
			DE 69624715 T2	03-07-2003
			EP 0846046 A1	10-06-1998
			WO 9707955 A1	06-03-1997
			US 6145277 A	14-11-2000
			US 5953884 A	21-09-1999